



2014 NWFSC Science Program Review of the California Current Grounfish Stock Assessment Process

Acronyms and Abbreviations

ABC	Acceptable biological catch - The ABC is a harvest threshold below the overfishing limit that is specified to accommodate the scientific uncertainty in estimating the overfishing limit.
ACL	Annual catch limit
ACT	Annual catch target
ADMB	Automatic Differentiation Model Builder, the language in which SS is written.
AM(s)	Accountability measure(s)
AP	Pacific hake / Whiting Advisory Panel
AUV	Autonomous underwater vehicle
ANOVA	Analysis of variance
B	(total) Biomass. Harvest is calculated using the exploitable fraction of this. See also SB
B ₀ , SB ₀	Both terms are used to refer to the average unfished (virgin) level of spawning biomass or output.
BMSY	The biomass that allows maximum sustainable yield to be taken, usually applied to SB, and expressed as a percentage of the unfished average level. The Council has utilizes BMSY proxy for flatfish (25%) and a higher level (40%) for all other species.
BCCA	Bottom Contact Closed Area
BTCA	Bottom Trawl Closed Area
CCA	Cowcod Conservation Area; coast-wide marine reserves prohibiting bottom fishing that are generally depth-dependent by region; for example, in Southern California, the RCA includes most waters deeper than 50 fathoms.
CCLME	California Current Large Marine Ecosystem
CDFG	California Department of Fish and Game
CDFW	California Department of Fish and Wildlife (formerly Dept. of Fish and Game)
CIE	Center for Independent Experts
Council	Pacific Fishery Management Council
CPFV	Commercial passenger fishing vessel (charter boat)
CPS	Coastal Pelagic Species
CPUE	Catch per unit of effort
CRCZ	Columbia River Conservation Zone
CRFS	California Recreational Fisheries Survey
CV	Catcher vessel
Db	Database
DB-SRA	Depletion-based stock reduction analysis; a program used for data-poor assessments

DCAC	Depletion-corrected average catch; a program used for data-poor assessments
D-M Assessments	Data-moderate assessments
EC	Ecosystem component
EEZ	Exclusive economic zone
EFH	Essential fish habitat
eFISH	Electronic Fisheries Information System, ODFW's internal data system encompassing all Oregon fish tickets, rockfish species composition data, and groundfish trawl logbook data; also will include biological sample data after further IT development
EFP	Exempted fishing permit
EIS	Environmental Impact Statement
ESA	Endangered Species Act
E-ticket	Electronic fish ticket
FE-Division	Fishery Ecology Division of the Southwest Fisheries Science Center
FMP	Fishery management plan
F	The instantaneous rate of fishing mortality. The term “fishing mortality rate” is a technical fishery science term that is often misunderstood. It refers to the rate at which animals are removed from the stock by fishing. The fishing mortality rate can be confusing because it is an “instantaneous” rate that is useful in mathematical calculations, but is not easily translated into the more easily understood concept of “percent annual removal.”
FMSY	The fishing mortality rate that maximizes catch biomass in the long term. The Council has utilized a suite of proxy values to represent this rate for categories of species.
FMU	Fishery management unit
FRAM	Fishery Resource Analysis and Monitoring
FSSI	Fish Stock Sustainability Index
GAP	Groundfish Advisory Subpanel
GAT	Groundfish Analysis Team of the Southwest Fisheries Science Center's Fishery Ecology Division
GCA	Groundfish Conservation Area
GF	Groundfish
GFA	Groundfish fishing area
GIS	Geographic information system
GLM	Generalized Linear Model
GLMM	Generalized Linear Mixed Model (an extension of generalized linear models)
GMT	Groundfish Management Team
h	Steepness (h) is conventionally defined as the proportion of unfished recruitment (R_0) produced by 20% of unfished spawning biomass (S_0).
HAPC	Habitat Area of Particular Concern
HG	Harvest guideline
HSP	Habitat suitability probability
HUD	Habitat Use Database
IBQ	Individual bycatch quotas
IFQ	Individual fishing quota
INPFC	International North Pacific Fisheries Commission
IPHC	International Pacific Halibut Commission
JMC	Pacific hake / Whiting Joint Management Committee
JTC	Pacific hake / Whiting Joint Technical Committee
JV	Joint-venture
JVP	Joint-venture processing

LE	Limited entry
M	Instantaneous rate of natural mortality
Magnuson-Stevens Act	Magnuson-Stevens Fishery Conservation and Management Act
MARPOL	International Convention for the Prevention of Pollution from Ships
MBTA	Migratory Bird Treaty Act
MCMC	Monte Carlo Markov Chain
MFCMA	Magnuson Fishery Conservation and Management Act of 1976
MFMT	Maximum fishing mortality threshold
MHHW	Mean higher high water level
MLR	Minimum landing requirement
MMPA	Marine Mammal Protection Act
MPA	Marine protected area
MRFSS	Marine Recreational Fisheries Statistical Survey
MRIP	Marine Recreational Information Program (a NOAA Fisheries program)
MRP	Marine Resources Program (Oregon Department of Fish & Wildlife)
MSA	Magnuson-Stevens Fishery Conservation and Management Act
MSRA	The Magnuson-Stevens Fishery Conservation and Management Reauthorization Act of 2006
MSST	Minimum stock size threshold
MSY	Maximum sustainable yield
NEPA	National Environmental Policy Act
NMFS	National Marine Fisheries Service
NS1	National Standard 1 (Optimum Yield) of the Magnuson Stevens Fishery Conservation and Management Act
NS2	National Standard 2 (Best Scientific Information Available) of the Magnuson Stevens Fishery Conservation and Management Act
NSG	National Standard Guidelines
NWFSC	Northwest Fisheries Science Center
ODFW	Oregon Department of Fish and Wildlife
OFL	Overfishing Limit
OMB	Office of Management and Budget
OR	Oregon
ORBS	Ocean Recreational Boat Survey (Oregon Department of Fish and Wildlife)
OSP	Washington Department of Fish and Wildlife Ocean Sampling Program
OY	Optimum yield
PacFIN	Pacific Fisheries Information Network
PDO	Pacific decadal oscillation
PEP	Population Ecology Program of the NWFSC's FRAM Division
PFMC	Pacific Fishery Management Council
PIT tag	Passive Induced Transponder tag
PMFC	Pacific Marine Fisheries Commission, former name of the Pacific States Marine Fisheries Commission, used only in "PMFC Area" which are fishery management areas identified by specific latitudinal divisions
POP	Pacific ocean perch
PRA	Paperwork Reduction Act
PSMFC	Pacific States Marine Fisheries Commission
QA/QC	Quality assurance/quality control
QPs	Quota pounds
R	Recruitment
R4SS	A library of R code for Stock Synthesis
RCA	Rockfish Conservation Area(s); coast-wide marine reserves prohibiting

	bottom fishing that are generally depth-dependent by region; for example, in Southern California, the RCA includes most waters deeper than 50 fathoms.
RecFIN	Recreational Fisheries Information Network
RF	Rockfish
ROV	Remotely operated vehicle (underwater)
SAFE	Stock Assessment and Fishery Evaluation
SAIP	Stock Assessment Improvement Plan
SB	Spawning Biomass, commonly used to represent spawning output; basis for status determination
SCB	Southern California Bight
SDC	Status determination criteria
SEBS	Shore and Estuary Boat Survey (Oregon Department of Fish and Wildlife)
Secretary	U.S. Secretary of Commerce
SFA	Sustainable Fisheries Act
SIS	Species Information System
SO	Spawning output
SPR	Spawning biomass per recruit
SS	Stock synthesis; a modeling framework commonly used for Pacific Coast groundfish assessments
SSS	Simple stock synthesis
SRG	Pacific hake / Whiting Scientific Review Group
SSC	Scientific and Statistical Committee
STAR Panel	Stock Assessment Review Panel
STAT	Stock Assessment Team
STT	Salmon Technical Team
SWFSC	Southwest Fisheries Science Center
TINSS	This is not stock synthesis, a stock assessment model used in Pacific hake / whiting.
TIQ	Trawl Individual Quota
TOR	Terms of Reference
USCG	United States Coast Guard
USFWS	U.S. Fish and Wildlife Service
VBC	video boat count
Vessel ID	Vessel identification number, referring to a federal document number or a state registration number
VMS	Vessel monitoring system
WCGOP	West Coast Groundfish Observer Program
WDFW	Washington Department of Fish and Wildlife.
WOC	Washington, Oregon, and California
ex-SSS	Extended Simple Stock Synthesis
YRCA	Yelloweye Rockfish Conservation Area